

Low Cost Safety Improvements

August 16, 2005 (#985)

**WSDOT NW Region Hdq., 15700 Dayton Avenue N.
Shoreline, WA 98133 (206) 440-4000**

August 17, 2005 (#991)

**WSDOT NW Region Hdq., 15700 Dayton Avenue N.
Shoreline, WA 98133 (206) 440-4000**

August 18, 2005 (#986)

**Best Western Lake Inn, 3000 Marina Drive,
Moses Lake, WA 98837 (509) 765-9211**

(The above phone numbers may be used in case of emergency to contact a student in a class.)

Cost: Free

Time: 8:00 am to 4:30 pm

Maximum Class Size: 40*

Instructor

John McFadden, Ph.D., P.E., PTOE. FHWA Baltimore Resource Center, Baltimore, Maryland

Course Description

The purpose of this course is to provide participants with methods for implementing effective, low-cost safety improvements targeted at high crash areas. It emphasizes the basic and enhanced application of traffic control devices, low cost safety improvements, and their specific safety benefit (crash reduction factors). Traffic crash data collection, identification of hazardous locations, and engineering study procedures will also be discussed. Emphasis is placed on low-cost solutions that may be made at the local level.

Application of low cost safety measures such as traffic control devices is often done on a minimal basis based upon nominal standards detailed in the MUTCD. To obtain a better substantive safety performance, the enhanced application of traffic control devices can now be linked to quantifiable safety assessments. A substantial body of research and engineering study over the past decade have been synthesized into this workshop for application as low cost safety improvements.

Low cost safety improvements and their specific safety benefits – crash modification factors associated with specific application measures - are presented in a systematic, ready to use format. Workshop participants present situations they are currently seeking to address; they will be discussed in detail and candidate countermeasures identified in the final workshop session.

Topics

Introduction and Background
Identification of High Crash Locations
Roadside Hazards



Signing and Marking and Lighting
Enhanced Applications of Signing and Markings
Unsignalized Intersections
Traffic Signals
Railroad Grade Crossings
Low Cost Safety Improvements Exercises
Innovative Applications of Traffic Control Devices – Beyond the MUTCD

Course Objectives

Upon completion of the seminar, attendees will be able to:

Use the six-step crash mitigation process,
Identify the nine groups of countermeasures for identified crash patterns,
Determine appropriate crash modification factors/crash reduction factors,
Describe intersection types, conflict points, and characteristics of collision types, and
Identify innovative applications of traffic control devices.

Target Audience

Traffic engineers, transportation planners, and roadway design engineers.

Questions? Local agencies contact Laurel Gray at (360) 705-7355 or GrayL@wsdot.wa.gov.
WSDOT employees contact Fred Atkinson at (360) 705-7066 or AtkinsF@wsdot.wa.gov

Class Registration

The 40 seats in each class will be shared with local agencies, WSDOT and FHWA. WSDOT employees should register through their usual ATMS process (Course Code CR4). FHWA and local agencies should register on-line using this link: [On-line Registration Form](#). Fill in your information, select your class from the drop-down list, then press "Submit." You will receive an e-mail notification with driving directions to the training site when we process your request. **If you do not receive this e-mail notification within a day or two, you may not be registered and should contact us by phone.**

Confirmation letters will be mailed three weeks prior to the class. If you are unable to attend, someone else from your agency may attend in your place. To cancel your registration, or for assistance with registration, e-mail wst2center@wsdot.wa.gov or schmidw@wsdot.wa.gov or phone (360) 705-7386.

* A "unique identifier" for each student is now required when registering on-line. It may contain 3 to 8 alpha and/or numeric characters. You might use your phone extension number, a pet's name, your birthstone, birthdate, etc. but please make it something you will remember. Our computer will match your last name with your identifier to automatically and quickly register you into a class (providing there is space available).

(Disability accommodations provided upon request.)

Washington State Technology Transfer Center's Web Page:

www.wsdot.wa.gov/TA/T2Center/t2hp.htm



**Washington State
Department of Transportation**